



PATENT
CELL 16.3

ABSTRACT

5 The present invention is directed to novel
replication-deficient adenoviral vectors characterized in
that they harbor at least two lethal early region gene
deletions (E1 and E4) that normally transcribe adenoviral
early proteins. These novel recombinant vectors find
10 particular use in human gene therapy treatment whereby the
vectors additionally carry a transgene or therapeutic gene
that replaces the E1 or E4 regions. The present invention
is further directed to novel packaging cell lines that are
transformed at a minimum with the adenoviral E1 and E4 gene
15 regions and function to propagate the above novel
replication-deficient adenoviral vectors.

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